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ARKANSAS ACADEMY OF SCIENCE

Fortieth Annual Meeting
Ouachita Baptist College
Arkadelphia, Arkansas
April 20-21, 1956

Friday, April 20

- 8:00 a.m. Registration.
10:30 a.m. First Business Meeting, Dr. W.W. Nedrow presiding. Welcoming address by Dr. H. Preston James, Dean of Faculty, Ouachita Baptist College.
12:00 m. Luncheon, First Baptist Church.
1:30 p.m. General Meeting. Preliminary study of factors relative to fish production in Lake Catherine, Lake Hamilton, and Lake Ouachita. James Stevenson, Little Rock, Arkansas.
2:00 p.m. Sectional Meetings: Biology and Agriculture, Chemistry, College, Geology, History and Political Science, Mathematics, Physics, Psychological and Sociological Section.
2:40 p.m. Wives. Entertainment. Home Economics Department.
4:00 p.m. Tea. Bailey Hall.
6:30 p.m. Banquet and Annual Lecture, Caddo Hotel. Lecturer, Dr. Delbert Swartz.
8:30 p.m. Judging of Junior Academy Exhibits.

Saturday, April 21

- 8:00 a.m. Coffee and Doughnuts. Student Center.
9:00 a.m. Joint Meeting of Senior and Junior Academies of Science.
10:30 a.m. Second Business Meeting. Senior Academy. Treasurer's Report. Report of Standing Committees and Special Committees. Election of Officers. Location of Next Year's Meeting. New Business. Installation of Officers, Adjournment by New President.
12:00 m. Informal Luncheon, College Cafeteria.
1:00 p.m. Field Trip.

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SECTIONAL PROGRAM

Biology and Agriculture

Chairman: Elizabeth Brinkley
Henderson State Teachers College

- A Report on a 1955 Summer Institute for Biology Teachers. Harriet Barclay, University of Tulsa.
- The Lone Star Tick. A Contribution Toward a Monograph of the Ticks in Arkansas. J. L. Lancaster, Jr., University of Ark.
- Freshwater Jelly Fish. A 10-minute film. Jack Wood Sears, Harding College.
- Flight Activity of the Alfalfa Butterfly (Pieridae: Colias Philodice Eurytheme) in Relation to its Physical Environment. Thomas F. Leigh, University of Ark.
- Measurement of the Wave Length of Light Which Causes the Emission of Photoelectrons During Photosynthesis. Louie Galloway, III, Hendrix College.
- Noteworthy Plants and Plant Communities of Southern Arkansas. Dwight M. Moore, University of Ark.
- Effect of Late Spring Freezing Temperatures on Winter Oats Fertilized with Highly Soluble Phosphate Sources. C. L. Garey, University of Ark.

Chemistry

Chairman: Aubrey E. Harvey
University of Arkansas

- Particle Interactions and Solvation in Some Non-Aqueous Electrolytic Solutions. Kurt H. Stern, University of Ark.
- The Determination of the Migratory Aptitude of the Anisyl Group in the Pinacol Rearrangement by an Isotope Dilution Procedure. William Shelton and Arthur Fry, University of Ark.
- The Exchange of Isotopic Oxygen Between Several Oxy-Anions and Water. T. C. Hoering, University of Ark.
- Dissociation Pressure of Inorganic Salts. Kurt H. Stearn, University of Ark.
- The Effect of Insulin on Tissue Distribution of D and L Arabinose. Stanley Bakshy and Jacob Sacks, University of Ark.

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The Isotope Effect Study of the Mechanism of the Condensation of Formaldehyde with 4-Hydroxy Coumarin-3- C^{14} . T. S. Rothrock and Arthur Fry, University of Ark.

Studies on the Kinetics of Isothermal Decomposition of Potassium Perchlorate at Constant Pressure. Carl J. Wassink and Aubrey E. Harvey, University of Ark.

College

Chairman: Lyndal York
Harding College

A Comparative Study of Mastitis Tests. Phillip G. Rand, John Brown University.

Topology. Ronald Harrist, Harding College.
Science and Industry. Roby Bearden, Ouachita College.

Pi. Carlisle Philips, Ouachita College.

A Spectroscopic Study of Groups I and II. Lyndal York, Harding College.

The Theory and Development of Television. Herbert Jennison, Ouachita College.

A Study of Ketosis in Cattle. Allen Moll, John Brown University.

Geology

Chairman: E. L. Jones
Arkansas Polytechnic College

Plateau Surfaces of the Ozarks. J. H. Quinn, University of Ark.

Size Analysis and Interpretation of the Hartshorne Sandstone of the Arkansas Valley. W. B. Lines, University of Ark.

Structure of the Nick Springs and West Nick Springs Oil Fields, Union County, Arkansas. R. S. Rushing, University of Ark.

History and Political Science

Chairman: Charles Hamilton
The College of the Ozarks

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Soviet Attitude Toward Pacific Settlement of International Disputes. Richard F. Starr, Harding College.
Henry Lane Wilson and the Death of Madero. Lowell L. Blaisdell, Arkansas Polytechnic College.
Robert Hales and the Swiss Church. William A. Bultman, Arkansas State Teachers College.
Rousseau and Monarchy. Gordon H. McNeil, University of Ark.
The Prelude to Munich. Dolphus Whitten, Jr., Henderson State Teachers College.
Negro Voting in Arkansas. Boyce A. Drummond, Ouachita Baptist College.

Mathematics

Chairman: Garland D. Kyle
Arkansas Mechanical and Normal College

An Unusual Continuum. John Stallings. University of Ark. Presented by B. H. Gundlach, University of Ark.

Physics

Chairman: B. L. Robinson
University of Arkansas

Simple High-Vacuum Systems. Jack G. Dodd, Jr. University of Ark.
Isotope Shifts in the Spectra of Strontium. T. S. Donaldson and R. H. Hughes, University of Ark.
Determination of Dielectric Properties of Small Crystal Aggregates. John H. Terrell, University of Ark.
Design of Corner Horn Loudspeakers. Paul W. Klipsch, Hope, Ark.

Psychological and Sociological

Chairman: E. P. Trapp
University of Arkansas

Sex Differences in Socio-economic Status in Predicting Success in College and Secondary School. Joseph V. West, Hendricks College.
Assault by Test and Battery. Sidney J. Fields,

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- University of Ark, School of Medicine.
Pre-test and Post-test Estimates of Level of Performance on an Achievement Test. Donald H. Kausler, University of Ark.
An Image of America. Lewis M. Long, University of Ark., School of Medicine.
Attitude Changes Toward Mental Health as Related to a College Course in Abnormal Psychology. E. Phillip Trapp, University of Ark.
Disaster Reaction. W. R. Quick, Ouachita Baptist College.
The Influence of Parent-Occupation on Personality Development. Howard R. Bailey, Hendricks College.